

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460



OFFICE OF  
AIR AND RADIATION

February 16, 2011

Dear ENERGY STAR<sup>®</sup> Lighting Partner, Stakeholder or Other Interested Party:

With this letter, the U.S. Environmental Protection Agency (EPA) announces the release of the Final ENERGY STAR Luminaires V1.0 specification. The Luminaires V1.0 specification will replace the Residential Light Fixtures (RLF, V4.2) and Solid State Lighting Luminaires (SSL, V1.3) specifications.

On May 10, 2010, EPA released Draft 1 of the ENERGY STAR Luminaires V1.0 specification, followed by Draft 2 on October 4, 2010, and the Final Draft on December 20, 2010. The Agency would like to thank partners and stakeholders for their thorough review of each draft, and the extensive comments received, which have been posted for your review on the Luminaires specification development web [page](#).

A series of minor edits have been incorporated into the final specification document as a result of stakeholder feedback on the Final Draft and follow up discussions, including:

- “How to Use This Document” language has been clarified and moved to the beginning of the specification.
- Significant digits and rounding instructions have been refined.
- Extraneous items have been removed from the Definitions and Reference Standards and Test Procedures sections.
- Clarifying language was added recognizing LED versions of GU24 based lamps as a pathway for qualification. These are expected to be covered by the forthcoming IES LM-82 test method.
- Commercial cove lighting has been removed due to comments received indicating that residential-based performance requirements may not be appropriate for commercial applications. EPA will revisit this luminaire type for potential inclusion in future revisions.
- The 1% upright tolerance for outdoor post-mount luminaires has been removed; tolerance direction will instead be provided to EPA-recognized Certification Bodies (CBs).
- Provisions have been added for factory-installed, non-removable E26 to GU24 lampholder adapters.

- Minor corrections and clarifications have been made in regards to:
  - LED light engine definition
  - Fluorescent CCTs
  - Lumen maintenance projections
  - Supplemental testing guidance
  - Solid state power factor
  - Halogen life
  - Electromagnetic and radio frequency interference
  - Maximum measured ballast or driver case temperature
  - Recessed downlight thermal performance
  - Safety and packaging requirements
  - Toxics reduction requirements

To support partners' efforts to qualify luminaires to the new specification the Agency is currently compiling the Certified Lighting Subcomponent Database, to replace the [NEMA/ALA Lamp and Ballast Platform Matrix](#), and the [EPA Approved Platform Database](#). The new Database will be hosted on the ENERGY STAR website at [www.energystar.gov/lightingsubcomponents](http://www.energystar.gov/lightingsubcomponents), will include GU24 based integrated lamps, and will be operational this spring. In addition to the final specification, EPA is providing you with a copy of the Partner Commitments applicable for luminaire manufacturers. This document is simply a repackaging of existing Partner Commitments for RLF manufacturers and SSL manufacturers.

For potential future revisions EPA is continuing to follow the development of new industry standards, including:

- New methods to measure and project lumen maintenance at the end-use product level (luminaire or lamp).
- New metrics for color rendering.
- New performance standards for dimming, and for solid state drivers.
- New methods of measurement and recommended practices regarding the operating frequency of solid state lighting products.
- Updated methods of measurement of audible noise from lighting products.

EPA shares its Partners' desire for a smooth transition from one ENERGY STAR specification version to the next, with the objective of meeting consumer expectations that ENERGY STAR labeled products fully meet the latest requirements in effect upon their date of manufacture. With this in mind, EPA has established the following timeline:

- Effective immediately, manufacturers may elect to have their CB certify their eligible products to the Luminaires Version 1.0 requirements. In the coming weeks, the Agency will provide tolerance values to EPA-recognized testing laboratories and CBs to be considered when collecting and reviewing test data. EPA will work closely with test laboratories and CBs to incorporate pending new solid state standards as they are finalized.
- After June 15, 2011, CBs will be instructed to stop certifying new product submittals to RLF V4.2 and SSL V1.3. Note, however, that models already qualified to RLF V4.2 and SSL V1.3 will maintain their qualification status until October 1, 2011.

- As of October 1, 2011 any luminaire shipped with an ENERGY STAR label must be certified to meet Luminaires V1.0 requirements. All certifications of products to the RLF V4.2 and SSL V1.3 specifications will be invalid for purposes of ENERGY STAR qualification, and CBs will only submit to EPA product models certified to Luminaires Version 1.0.

As a reminder, as of January 1, 2011 all new products must be certified by an EPA-recognized Certification Body (CB) before being labeled and marketed as ENERGY STAR qualified. Upon satisfactory completion of all certification requirements, a CB will notify the Partner that the product is ENERGY STAR qualified and will submit qualified product data to EPA for listing on the ENERGY STAR website. For more information on the Third-Party Certification program please visit [www.energystar.gov/testingandverification](http://www.energystar.gov/testingandverification).

All materials related to the Agency's development of the Luminaires V1.0 specification are posted at [www.energystar.gov/luminaires](http://www.energystar.gov/luminaires). New materials will soon be posted to assist partners, including searchable frequently asked questions which will be updated regularly. EPA is also currently reviewing existing requirements governing the use of IES LM-80 test reports and is gathering input from LED manufacturers to determine what improvements should be made.

EPA looks forward to working with you to bring high quality, energy efficient luminaires to the market carrying the ENERGY STAR certification mark. Please feel free to contact me with questions or concerns at (202) 343-9272 or [baker.alex@epa.gov](mailto:baker.alex@epa.gov), or Kate Buck at ICF International at (919) 293-1652 or [kbuck@icfi.com](mailto:kbuck@icfi.com).

Thank you for your contributions towards the development of this new specification, and for your continued support of ENERGY STAR.

Sincerely,



Alex Baker  
Lighting Program Manager, ENERGY STAR  
U.S. Environmental Protection Agency